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RFID systems and security and privacy implications - ▶ **ubipass.com** [PDF]
SE Sarma, SA Weis, DW Engels - Lecture notes in computer science, 2003 - Springer
... in the US, in contrast, allows **multiple** reader-to ... a unique penchant for **RFID**-tagged
Gucci ... security goals requires implementing **access** **control** and authentication ...
<u>Cited by 305</u> - <u>Related articles</u> - <u>Web Search</u> - <u>BL Direct</u> - <u>All 43 versions</u>

An overview of backscattered radio frequency identification system (RFID)
KVS Rao - Microwave Conference, 1999 Asia Pacific, 1999 - ieeexplore.ieee.org
... **Multiple** tag identification is possible. ... **RFID** can be widely used in the applications
like retail, transportation, **access** **control**, asset management ...
<u>Cited by 63</u> - <u>Related articles</u> - <u>Web Search</u>

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A Juels, RL Rivest, M Szydlo - Proceedings of the 10th ACM conference on Computer and ..., 2003 - portal.acm.org
... for ordinary consumers include effortless physical **access** **control** ... for privacy-protection
of **RFID** tags embedded in ... They use **multiple** public keys, thanks to a ...
<u>Cited by 442</u> - <u>Related articles</u> - <u>Web Search</u> - <u>All 46 versions</u>

RFID for road tolling, road-use pricing and vehicle **access** **control**
P Blythe - IEE Colloquium on RFID Technology (Ref. No. 1999/123), 1999 - ieeexplore.ieee.org
Page 1. **RFID** FOR ROAD TOLLING, ROAD-USE PRICING AND VEHICLE **ACCESS** **CONTROL** By:
Phil Blythe, AMIEE Senior Lecturer in Transport Telematics ...
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Fully integrated passive UHF **RFID** transponder IC with 16.7-µW minimum RF input power - ▶ **ncue.edu.tw**
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U Karthaus, M Fischer, RFC Div, AG GmbH, G Ulm - IEEE Journal of Solid-State Circuits, 2003 - ieeexplore.ieee.org
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"Passive Long Distance **Multiple** **Access** UHF **RFID** System," European ...
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environ- ment ... **Access** **control**: **RFID** tags embedded into personal ID cards. ...
<u>Cited by 121</u> - <u>Related articles</u> - <u>Web Search</u> - <u>All 12 versions</u>

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2003 - ieeexplore.ieee.org
... lacking a central **control**, does allow ... reservation **multiple access** scheme for multimedia
traffic. ... **RFID** Handbook: Radio-Frequency Identification Fundamentals and ...
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Squealing Euros: Privacy protection in **RFID**-enabled banknotes - ▶ **rsasecurity.com** [PDF]
A Juels, R Pappu - Lecture notes in computer science, 2003 - Springer
... collision, that is, the ability for **multiple** tags with ... These are **access-control**

functions applied to particular memory cells ... An **RFID** tag will only permit a keyed ...
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≫ **wsu.edu** [PDF]
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have mostly been single ... network on clothing by using **multiple RFID** links. ...
Cited by 40 - Related articles - Web Search - All 5 versions

[PDF] ≫ Lightweight authentication protocols for low-cost **RFID** tags
I Vajda, L Buttyan - 2nd Workshop on Security in Ubiquitous Computing, 2003 - pmlab.iecs.fcu.edu.tw
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like **RFID** tags are ... able to run efficient forward error **control** mechanisms ...
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J Brusey, C Floerkemeier, M Harrison, M Fletcher - IJCAI-2003 Workshop on Reasoning with Uncertainty in ..., 2003 - inf.ethz.ch
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A Juels - Submission to RFID Privacy Workshop@ MIT, 2003
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... CREDENTIALS FILE DECRYPTED CREDENTIALS RS-**RFID**\YES MATCH ... prise wide information distribution with information **control** and **access control** capabilities while ...
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Colorwave: an anticollision algorithm for the reader collision problem

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... band (in the US), admit **multiple** frequency channels ... coordinate their operation with the **RFID** system to ... also related to the Medium **Access Control** (MAC) problem ...
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Wireless media access control for highly mobile information servers: simulation and performance ...

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... Inc., Micron 125 kHz External **RFID** Antenna, Catalog ... between the remote controller 70 and the **access** points 202 ... of costly bus-bar-type 5 **control** conductors that ...
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GF Lupien Jr, CA Smith - US Patent 5,959,530, 1999 - Google Patents
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A Lim, K Mok - JOURNAL OF INTERCONNECTION NETWORKS, 2002 - WORLD SCIENTIFIC
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P Sorrells - Microchip Technology Inc, 1998 - jimfranklin.info
... existing applications, a single-read **RFID** tag is ... and even necessary: animal tagging and **access control** are examples ... In order to read **multiple** tags simultaneously ...
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M Karkkainen, T Ala-Risku - Logistics Research Network (LRN) 8th annual conference, ..., 2003
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DW Engels - 2003 - autoidlabs.org
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example, an **RFID access control** system locates its tag readers at the entry ...
Cited by 3 - Related articles - View as HTML - Web Search - All 3 versions

[PDF] ▶ Contactless technology for secure physical **access**: Technology and standards choices
SC Alliance - Smart Card Alliance Research Report, 2002 - cnfpa.gov.it
... systems that benefit from **multiple** card technologies. ... considered for physical **access**
control applications: 125 kHz ... of today's **RFID access control** systems and ...
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... One problem with attempting to read **multiple RFID** tags 55 within an interrogation ...
data collisions, some interrogators include a means for **control**- ling the ...
Cited by 10 - Related articles - Web Search - All 6 versions

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portal.acm.org
... Mouse (point-and-click) Social **control** over physical **access** ... How to **control** or cancel
system action in ... to sensors; objects augmented with **RFID** (radio frequency ...
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Wireless data input to **RFID** reader
MS Casden - US Patent App. 09/944,646, 2001 - Google Patents
... systems as authorized personnel and **access control** requirements change. ... In large
RFID systems such reprogramming is ... the host computer linked to **multiple** readers ...
Cited by 3 - Related articles - Web Search - All 8 versions

New generation of ip-phone enabled mobile devices
M Kohno, J Rekimoto - Lecture notes in computer science, 2002 - Springer
... detection of the **RFID** tag activates the session **control** procedure, which ... PC **RFID**
reader Ethernet ... Next, the PC gives the terminal temporary **access** rights via ...
Cited by 5 - Related articles - Web Search - BL Direct - All 5 versions

[PDF] ▶ **RFID**–It's all about security
J Karlen - RF Design, 2002 - images.rfdesign.com
... scale, nor extend securely, to **multiple** applications that ... ity on tokens for traditional
RFID applications such as ticketing, **access control**, and fueling ...
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Low-power radio frequency identification reader
RW Watkins - US Patent 6,150,948, 2000 - Google Patents
... **Multiple** secondary detectors may also be connected in ... reader system comprising: a
proximity **RFID** tag reader ... upon completion of an **access control** function; such ...
Cited by 2 - Related articles - Web Search - All 7 versions

Low-cost radio replacement utilizing **RFID** technology
JA Anderson, CA Wiklof - US Patent 6,608,551, 2003 - Google Patents
... a result the interrogator 40 may operate at **multiple** frequencies so ... the device could
provide location tracking and **access control** using the **RFID** tag and ...
Cited by 2 - Related articles - Web Search - All 4 versions

[PDF] ⚹ Radio Frequency Identification (RFID) technology and its applications in the commercial construction ...

M Schneider - University of Kentucky thesis, Lexington, 2003 - e-pub.uni-weimar.de

... **multiple** number of times (Identec Solutions, 2002) (see Figure 2.). ... Many businesses use **RFID** to **control access** to hotels and business facilities by ...

Cited by 13 - Related articles - View as HTML - Web Search - All 3 versions

Interference **control** method for **RFID** systems

JP Bradin - US Patent 6,566,997, 2003 - Google Patents

... tags and is not limited to **multiple access** schemes ... wide range of different **RFID** applications, such as asset management, **access control**, inventory tracking ...

Cited by 1 - Related articles - Web Search - All 2 versions

[PDF] ⚹ The New Revolution in Product ID: Electronic Product Code (EPC) Integration with **RFID**

D Benjamin - MARKEN Corporation Company Presentation at the PackExpo, 2003 - markem.us

... The MARKEM Mission n Use **multiple** technologies to help industries apply ... Initial commercial applications were **access control** and A Brief **RFID** History ...

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[PDF] ⚹ Privacy-aware location sensor networks

M Gruteser, G Schelle, A Jain, R Han, D Grunwald - HotOS IX, 2003 - citeseerx.ist.psu.edu

... to allow such decision- making (eg, **RFID** or the ... more sophisticated adver- sary, with local **access** to the ... **Control** traf- fic conveys information about the sensor ...

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[BOOK] The Global Markets and Applications for Radio Frequency Identification.

MJ Liard, D Krebs, Venture Development Corporation - 2001 - Venture Development Corp.

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TIRIS: a vehicle tracking system using passive radio transponders

MM Ollivier - IEE Colloquium on Vehicle Location and Fleet Management ..., 1993 - ieeexplore.ieee.org

... data memory in excess of lKbit, arranged in a **multiple** 64 bit ... 3 Passive **RFID** is providing solutions to problems in market sectors as diverse as **Access control**, ...

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[CITATION] **RFID**, MEMS, and their Applications in the Field of Construction

A Durfee, P Goodrum - 2002 - White Paper

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[PDF] ⚹ Smart identification

F Mattern - Summer School on Ubiquitous and Pervasive Computing, 2002 - vs.inf.ethz.ch

... F.Ma. 42 Watch and car key with integrated **RFID** for contactless **access control** (eg, lock a computer when operator leaves it) Contactless **Access Control** Page 41. ...

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Self powered electronic memory identification tag with dual communication ports

JP Ward, K Maletsky - US Patent 6,046,676, 2000 - Google Patents

... attached, so that only BIOS can **control** the security ... All **access** protection bits are stored on a separate ... The **RFID Access** (RF) fields in the **Access** Protection ...

Cited by 4 - Related articles - Web Search - All 2 versions

Radio frequency tag circuit and method for reading **multiple** tags

E Chen, MK Wang, CY Tu, CH Tsai, ST Chang - US Patent App. 10/231,710, 2002 - Google Patents

... This kind of system usually is used in an **access control**, an inventory-**control**, or an ... **RFID** Tag or transponder ordi- narily includes antennas and Integrated ...

Web Search - All 2 versions

Radio frequency identification (**RFID**) based network **access** management

H Wang – US Patent App. 10/610,974, 2003 – Google Patents
... tag algorithm M flag: apply this key to **multiple** tags (until ... the cost of an attack
against the **access control** system. ... The one **RFID** tag 60, in this case, could ...
Web Search - All 2 versions

[BOOK] Security, ID Systems and Locks: The Book on Electronic **Access Control**
J Konicek, K Little – 1997 – books.google.com
... has over 25 years experience in intrusion detection and **access control** system design ...
He has man- aged **multiple** large projects, integrating prime, subcontractors ...
Web Search - All 4 versions

THE BASICS OF RADIO FREQUENCY IDENTIFICATION (**RFID**) TECHNOLOGY
PA Pittsburgh – Handbook of RF and wireless technologies, 2003 – books.google.com
... Controlled **access** of personnel ... Identification of product variants and process **control**
in flexible ... number of factors influence the suitability of **RFID** for given ...
Related articles - Web Search

Wireless local area network (WLAN) channel radio-frequency identification (**RFID**) tag system and ...
D Aljadeff, Y Granot, S Tsruya, R Amsalem – US Patent App. 10/274,698, 2002 – Google Patents
... Reception information is gathered from **multiple** location stations ... a network receiver,
full MAC (Medium **Access Control**) support and ... which a low-cost **RFID** tag is ...
Web Search - All 7 versions

Electrical power **control** system
AB Ratcliffe – US Patent App. 10/416,922, 2003 - Google Patents
... [0026] In many cases, **multiple** apparatus embodying ... to the com- puter through a suitable
access control product ... programmer may be used to program **RFID** cards with ...
Web Search - All 6 versions

... wave (CW)-fixed **multiple** frequency triggered, radio frequency identification (**RFID**) tag and system ...
BL Corbett, ML Workman – US Patent App. 10/666,823, 2003 – Google Patents
... as inventory management, security **access**, personnel identification ... The **RFID** interrogator
includes first and second ... sequence and gen- erating **control** signals, a ...
Web Search - All 4 versions

System and method for integrating and characterizing data from **multiple** electronic systems
A Wren, C Ashe, S Fairbairn, KD Schultz – US Patent App. 10/742,607, 2003 – Google Patents
... characterizing data from **multiple** electronic systems ... article surveillance systems,
access control systems, automatic ... machines, gas pumps, **RFID** detection systems ...
Web Search - All 3 versions

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W Noothong, N Panitantum, A Yordthein, A ... - NECTEC. Slide presentation, 2002
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Access control through secure channel using personal identification system
G Seroussi, KG Paterson, W Mao, MT Smith – US Patent App. 09/896,796, 2001 – Google Patents
... often require a user to memorize **multiple** passwords and ... to automate the logon and
access control processes ... a radio frequency identifi- cation (**RFID**) card which ...
Web Search - All 8 versions

Point-of-purchase display with **RFID** inventory **control**
K Shanton – US Patent App. 10/646,912, 2003 – Google Patents
... simply opened on the front or top to enable **access** to the ... suitable desired configuration,
as the inventive concept of **RFID** inventory **control** may be ...
Web Search - All 2 versions

[PDF] CSC2228: Topics in Mobile and Pervasive Computing

E de Lara - IEEE Personal Communications, 2001 - cs.toronto.edu
... networks • Opportunistic sensing • **RFID RFID** • Activity recognition ... belong
to **multiple** organizations/users • **Access control** • Who can ...
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Information-based **access control** system for sea port terminals
A Zagami - US Patent App. 10/732,168, 2003 - Google Patents
... or a government authority will support **multiple** data encoding and ... Crew members
may pass through various **control** check points and **access** points in ...
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Joint admission/congestion **control** for wireless CDMA systemssupporting Integrated services -
➤ comsoc.org [PDF]
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ieeexplore.ieee.org
... need higher transmission rates can use **multiple** codes in ... work, a two-phase congestion
control scheme is ... letting all data users simultaneously **access** the shared ...
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[PDF] ➤ Modeling location for pervasive environments
R Glassey, I Ferguson - First UK-UbiNet Workshop, London, UK, 2003 - www-dse.doc.ic.ac.uk
... still many issues surrounding the **access control** and management ... that will allow fine
grained **control** over the ... sensor technologies (passive IR, **RFID** tags, GPS ...
Cited by 3 - Related articles - View as HTML - Web Search - All 8 versions

... pattern (s) from antenna (s) arranged in a two-dimensional plane for use in **RFID** tags and labels
JR Tuttle - US Patent 5,572,226, 1996 - Google Patents
... **Access** Memory (SRAM), Dynamic Random **Access** (DRAM) or ... 3a, an **RFID** interrogator unit's
antenna system ... computer circuitry, under software **control**, switches to ...
Cited by 24 - Related articles - Web Search - All 4 versions

Laminate **RFID** label and method of manufacture
SM Babb - US Patent App. 09/903,197, 2001 - Google Patents
... devices are used in systems for **access control**, animal feeding ... pro- grams, inventory
control, process **control**, and security ... method of making the **RFID** label is ...
Cited by 1 - Related articles - Web Search - All 7 versions

Automated physical **access control** systems and methods
MP Schuyler, M Harville - US Patent App. 10/698,242, 2003 - Google Patents
... along the vertical axis into **multiple** horizontal partitions ... by token reader 14 within
access control area 28 ... wirelessly interrogate tokens (eg, **RFID** based tokens ...
Web Search - All 2 versions

Next-generation wearable networks
RL Ashok, DP Agrawal - Computer, 2003 - ieeexplore.ieee.org
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access data rate Coverage ... networks **RFID** (duplex); short-range low available ...
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Storage media **access control** method and system
RH Seinfreund, R Vig, DR Goyette, P Miller, JM ... - US Patent App. 10/645,078, 2003 - Google Patents
... **Control** of **access** may be ... mate- rials (including, without limitation, for example,
com- pounds, dyes, radio frequency tags, **RFID**, microelectronic circuits ...
Web Search - All 6 versions

Method and system for **access control**
T Callahan, S Meyer - US Patent App. 10/715,113, 2003 - Google Patents
... 2,2004 (54) METHOD AND SYSTEM FOR **ACCESS CONTROL** (76) Inventors: Terrance Callahan,

Shelburne (CA); Steven Meyer, Richmond Hill (CA) Correspondence Address ...
Web Search - All 6 versions

[PDF] ▶ Securing passive objects in mobile ad-hoc peer-to-peer networks
R Mayrhofer, F Ortner, A Ferscha, M Hechinger - Electronic Notes in Theoretical Computer Science, 2003 - mayrhofer.eu.org
... broad range of applications from multiple vendors like ... capabilities, are unable to
control access to that ... Benetton recently adopted Philips RFID technology for ...
Cited by 8 - Related articles - View as HTML - Web Search - All 13 versions

Reprogrammable vehicle access control system
PJ Dix, M Bojarski - US Patent App. 10/602,750, 2003 - Google Patents
... many vehicles, however, there may be multiple keys that ... used as a smart key to control
access to the ... preferably one of Texas Instru- ments RFID products, more ...
Web Search - All 2 versions

Access system utilizing multiple factor identification and authentication
EM Scheidt, E Domangue, R Butler, W Tsang - US Patent App. 10/502,478, 2003 - Google Patents
... In particular, the present invention relates to techniques for providing
multiple-level access control to objects in a com- puter system. ...
Related articles - Web Search - All 7 versions

RFID reader/writer device
B Hall, KE Thornton, JP Pearson, PG Scharpf, HKJ ... - 2000 - freepatentsonline.com
... WSI, Inc., Fremont, California, having random access memory, read ... I/O which interact
with and control the other ... and write to a variety of RFID transponders 22 ...
Web Search - All 3 versions

[CITATION] Critical manufacturing issues and solutions for tracking moisture sensitive devices (MSDS)
F Monette, C Inc - Techical report, 2001
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Remote identification of container contents by means of multiple radio frequency identification ...
PJ Sweeney - US Patent App. 10/707,511, 2003 - Google Patents
... an apparatus and method for a radio frequency document control system that ... it uses,
in one embodiment, an external RFID system to restrict access to the ...
Related articles - Web Search - All 4 versions

[PDF] ▶ RF/ID: Spectrum, Application, &Techniques
J Eagleson - Proc. of Fourth Wireless Symposium, 1996 - members.surfbest.net
... Access Control Vehicle ID Automatic Toll ... Auto Assembly Line Control Automatic Toll
Collection ... the tough get RFID ! Does not require Line-of-Sight placement. ...
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[PDF] ▶ A user interaction paradigm for physical browsing and near-object control based on tags
P Välkkynen, I Korhonen, J Plomp, T Tuomisto, L ... - Physical Interaction (PI03) Workshop on Real World User ..., 2003 -
www-alt.medien.ifi.imu.de
... visible, pointing is a natural way to access it ... RFID tags may be made into TouchMe
tags by limiting ... 2.4 Universal remote control concept The ScanMe, PointMe and ...
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[PDF] ▶ Radio frequency ID
J Rossi - Hospitality Upgrade Magazine, Summer, 2003 - wcapra.com
... EMERGING TECHNOLOGY RFID Early Uses Building access control Parking deck access
Airline baggage ID Auto anti-theft immobilization Keyless entry ...
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RFID device detection system and method
IJ Forster - US Patent App. 10/406,702, 2003 - Google Patents

... security-locks in cars, for **access control** to build ... 4 illustrates an embodiment of
the **RFID** device detection ... 1 that has **multiple** trans- mission line structures ...
Cited by 1 - Related articles - Web Search - All 4 versions

Materials handling, tracking and **control system**
RF Rudolph, EA Elliot, MA Mathews - US Patent App. 09/837,351, 2001 – Google Patents
... HHT 103 also contains an **RFID** reader/writer. ... HHT and, in addition, can **access** the
full ... tracking, manufacturing data, specifications, quality **control** data and ...
Web Search - All 4 versions

[PDF] ▶ Optimization of inductive **RFID** technology for product management
SCQ Chen, V Thomas - Proc. IEE Intl. Symposium, Electronics and Environment 2001, 2001 - cheequan.homestead.com
... An application may require the ability to read more than one **RFID** tag at ... This scheme
is similar to the TDMA (Time Domain **Multiple Access**) scheme used in many ...
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